

**SUBMISSION AGREEMENT  
BETWEEN  
THE GLOBAL OCEAN SURFACE UNDERWAY DATA CENTER/ FRENCH  
RESEARCH INSTITUTE FOR EXPLOITATION OF THE SEA  
AND  
THE NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION  
FOR SEA SURFACE TEMPERATURE AND SALINITY DATA FROM  
THERMOSALINOGRAPHS COLLECTED ABOARD MULTIPLE SHIPS WORLD-WIDE  
FROM 1989-PRESENT AS PART OF THE GLOBAL OCEAN SURFACE UNDERWAY  
DATA (GOSUD) PROJECT**

**2016-09-13**

**Introduction**

This document represents the agreement that the Global Ocean Surface Underway Data Center/ French Research Institute for Exploitation of the Sea (GOSUD/IFREMER) (the "Provider") and the National Centers for Environmental Information (NCEI) (the "Archive") have reached for submitting the Provider's data, Sea surface temperature and salinity data from thermosalinographs collected aboard multiple ships world-wide from 1989-present as part of the Global Ocean Surface Underway Data (GOSUD) project, to the Archive for long-term preservation. It represents a joint effort between the Provider and the Archive to accurately document the agreement and the expectations between the two groups.

In order to ensure that the quality and integrity of the archived data is not compromised, the Provider and the Archive agree to maintain this agreement with accurate and up-to-date information through the life of the data submission.

Add comments as needed

**Contacts**

Persons included in all communications regarding the data submission.

**Provider Contacts**

|   |  |
|---|--|
| Point of Contact, Data Manager          | Co-chair, Scientific Manager of the Data |
| Loic Petit de la Villeon                | Center                                   |
| SISMER (Systèmes d'Informations         | Fabienne Gailard                         |
| Scientifiques pour la Mer) chez IFREMER | LOPS-Ifremer                             |
| 33(0)2-98-22-49-13                      | 02 98 22 42 88                           |
| Loic.Petit.De.La.Villeon@ifremer.fr     | gosudcontact@listes.ifremer.fr           |

**Archive Contacts**

Data Acquisition, scientific contact  
Zhankun Wang  
DOC/NOAA/NESDIS/NCEI > National  
Centers for Environmental Information,  
NESDIS, NOAA, U.S. Department of  
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## Data Overview

The GOSUD thermosalinographs dataset being submitted to NOAA/NCEI contain information about sea surface temperature and salinity obtained with the use of thermosalinographs (TSG) installed in a variety of ships (237 ships). The datasets provided by the various GOSUD contributors are collected and assembled in the database by Coriolis. The data set submitted to NCEI for distribution constitutes the complete data set assembled by GOSUD with the corresponding flags after the quality control. The time period covered by the Data set is from 1989 to present. The geospatial coverage of the Data set is worldwide coverage. The observations are collected from different categories of platforms such as research vessels, merchant ships but also sailing ships or cruise vessels. The measured variables or parameters include conductivity, sea surface salinity, sea surface water temperature (using internal sensor), water temperature (using external sensor, when available), latitude, longitude and time. The originator's data have different temporal resolutions from three minute median filtered values to one hour point values.

## Applicable and Reference Documents

Documents applicable to or referenced from this agreement.

None

## Submission Scope

### Active Submission Period

2016-09-01 - 2117-04-06

### Data Types

Below is a summary of the data sizing and submission schedule by data type group. Enter information on at least one data type.

| Data Type Name | Data Sizing          | Submission Schedule |
|----------------|----------------------|---------------------|
| netcdf         | about 10 MB/ per day | daily               |

## Reviews and Testing

Describe the reviewing and testing procedures done by the Archive for the Provider's data, transfer interface, etc., prior to the data submission.

## Providing System

Identification of the system providing the data to NCEI.

System Name: Global Ocean Surface Underway Data (GOSUD)  
System Owner: Loic Petit de la Villeon & Fabienne Gaillard

Physical Location: France

Additional Information: Global Ocean Surface Underway Data (GOSUD) is an initiative of the International Oceanographic Data and Information Exchange (IODE) of the Intergovernmental Oceanographic Commission (IOC) programme

## Transfer Interface

Describe the transfer protocol, interface, data availability, data priority, nominal bandwidth, etc.

## Submission File Inventory

Information on each submitted file type from the Provider. Information on multiple file types can be added below.

| <b>File Type Name:</b> nc.gz   |  |   |     |                   |  |   |
|--|--|---|-----|-------------------|--|---|
| <b>File Name Pattern:</b><br>callsign_YYYY_a_RT/NRT_Gosud_version number.nc.gz   |  |   |     |                   |  |   |
| <b>File Name Field Definitions:</b><br>callsign : the callsign of the ship collected the data<br>YYYY: 4 digital year of the data collection<br>RT/NRT: Real-time/Near real-time<br>Version number: V2 or V3   |  |   |     |                   |  |   |
| <b>Example File Name:</b><br>2EIF7_2012_a_NRT_Gosud_V3.nc.gz   |  |   |     |                   |  |   |
| <b>File Format:</b> netCDF-4   |  |   |     |                   |  |   |
| <b>File Compression:</b> gzip  |  |   |     |                   |  |   |
| <b>File Size Average:</b> 200KB  |  |   |     |                   |  |   |
| <b>File Size Range:</b> 6KB to 5MB   |  |   |     |                   |  |   |
| <b>File Count (Rate):</b> Total file count and/or the file count rate at which this file will be submitted   |  |   |     |                   |  |   |
| <b>Data Volume (Rate):</b> Total data volume and/or the data volume rate at which this file will be submitted  |  |   |     |                   |  |   |
| <b>Submission Schedule:</b> General time window for when this file will be submitted   |  |   |     |                   |  |   |
| <b>Additional Information:</b> Add comments as needed for this file type   |  |   |     |                   |  |   |
| <b>Descriptive Information Attributes:</b>   |  |   |     |                   |  |   |
| <table border="1"><thead><tr><th>Attribute</th><th>Source</th><th>Use</th></tr></thead><tbody><tr><td>Name of attribute</td><td>Source of attribute value, e.g., file name</td><td>For search, results display, and/or cross-referencing</td></tr></tbody></table> | Attribute                                  | Source  | Use | Name of attribute | Source of attribute value, e.g., file name | For search, results display, and/or cross-referencing |
| Attribute  | Source                                     | Use   |     |                   |  |   |
| Name of attribute  | Source of attribute value, e.g., file name | For search, results display, and/or cross-referencing |     |                   |  |   |

## Submission Manifest

A submission manifest file with a 32-character MD5 checksum value is required for each submitted file in order to ensure the integrity of the submitted data.

## File Content Specification:

Define the contents of the submission manifest, e.g., "A submission manifest file contains a comma delimited list of submitted file names and associated checksums for one or more submitted files."

## File Transmission:

The frequency and mechanism of a submission manifest transmission.

**File Name Pattern:**

Naming pattern used to identify the submission manifest file

**File Name Definitions:**

Definitions of the fields in the submission manifest file name pattern

**Example File Name:**

An actual submission manifest file name

**Archive Ingest**

Ingest processing steps at the Archive and communication with the Provider.

**Receipt Verification:**

The Archive will use the provided file name and 32-character MD5 checksum value to verify the integrity of a delivered file.

**Error Reconciliation:**

The Archive will report any problems or errors with file integrity, file name, checksum validation, or other errors that inhibit the data ingest and archive to the Provider. A new corresponding submission manifest will be required for files re-submitted by the Provider.

**Receipt Confirmation:**

The Archive will provide an inventory of the data ingested once it is completed or as requested by the Provider.

**Quality Assurance:**

No quality checks on the submitted data are planned.

**Archive File Packaging:**

Description of file packaging or re-naming by the Archive upon ingest.

**Archive Storage**

Archive attributes of each archived file type.

**Archive File Type Name:** Descriptive name for this archive file type

**Archive File Attributes/IDs:**

| Attribute/ID Type | Value              |
|-------------------|--------------------|
| Metadata ID       | Attribute/ID value |

**Archive Updates**

Data submissions intended to update an existing archive record require adequate notification and justification. Updates can supersede previous data submissions as a newer or improved version, however any previously submitted data will not be removed from the archive for the purpose maintaining version control and traceability in the archive.

**Retention Schedule**

The data will be retained in the Archive for long-term preservation in accordance with NOAA data management standards. Information on data usage and archive value may be used for making decisions on continuing the duration

of the archive.

(Notional) Disposition: 2118-09-13

## Constraints

No constraints apply or will apply to the archived data.

## User Community

The expected users are NOAA/NCEI, NOAA/STAR and satellite community. This dataset will be an important component of the NCEI TSG database developing now, which will be a critical in situ database for the in situ/satellite matchup project in NOAA/STAR. Ocean surface is the location of strong exchanges with the atmosphere but also with ice and continents. Ship based underway measurements can make a significant contribution to the observation of this very active layer. This data is also used for research purposes as part of the GOOS.

## User Documentation and Metadata

The Provider will supply information to the Archive for writing and maintaining standard archive metadata, which includes data discovery information, references and data archive access links for users. The following published documents and archived items will be referenced from the metadata and made available to users.

### Representation Information Items

For data to be useful to users, present and future, its format specification and characteristics must be documented and preserved with the data. Representation Information provides users with syntax (structure) and/or semantics (meaning) to decode the encoded data.

| Item                  | Description                      |
|-----------------------|----------------------------------|
| Item name or citation | Item description or intended use |

### Preservation Descriptive Information Items

Preservation Descriptive Information items contain context, provenance, and/or quality information for the data.

| Item                  | Description                      |
|-----------------------|----------------------------------|
| Item name or citation | Item description or intended use |

## Access and Dissemination

The Archive will provide access services for the data and supporting information to the designated user community.

## Additional Terms

None.